

73

DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION <input type="checkbox"/> Declaration <input checked="" type="checkbox"/> Declaration Submitted with Submitted after Initial Initial Filing Filing (surcharge 37 CFR 1.16(e) required)	Attorney Docket No.	SNS-006CP1
	First Named Inventor	Shih et al.
	COMPLETE IF KNOWN	
	Application Serial Number	09/347,637
	Filing Date	July 6, 1999
	Group Art Unit	2772
Examiner Name	Not Yet Assigned	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SYSTEMS AND METHODS FOR SCULPTING VIRTUAL OBJECTS IN A HAPTIC VIRTUAL REALITY ENVIRONMENT

(Title of the Invention)

the specification of which

☐ is attached hereto
OR
☒ was filed on 07/06/1999 as United States Application Serial Number or PCT International (MM/DD/YYYY)

Application Number 09/347,637 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

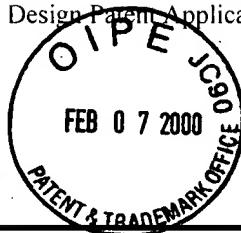
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Serial Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application serial numbers are listed on a supplemental priority data sheet attached hereto.
60/093,304	July 17, 1998	



DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Serial Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
09/340,875	6/28/1999	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number

OR

☒ Registered practitioner(s) name/registration number listed below

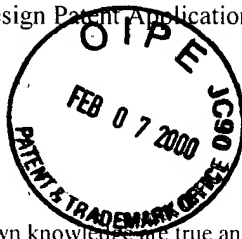
Place Customer
Number Bar Code
Label Here

Name	Registration Number	Name	Registration Number
Steven M. Bauer	31,481	Kurt W. Lockwood	40,704
Isabelle A.S. Blundell	43,321	Marianne McLaughlin	42,870
Maureen A. Bresnahan	P-44,559	Thomas C. Meyers	36,989
Michael H. Brodowski	41,640	Joseph B. Milstein	42,897
Tara C. Cacciabauda	40,935	Ronda P. Moore	44,244
Jennifer A. Camacho	43,526	Edmund R. Pitcher	27,829
Joseph A. Capraro, Jr.	36,471	Dianne M. Rees	P-45,281
John J. Cotter	38,116	Kurt Rauschenbach	40,137
Jennifer L. Dupre	41,722	Michael A. Rodriguez	41,274
John V. Forcier	42,545	Michael J. Schmelzer	43,093
Michael Giannetta	42,574	J. Scott Southworth	39,382
Duncan A. Greenhalgh	38,678	Christopher W. Stamos	35,370
William G. Guerin	41,047	Robert J. Tosti	35,393
Ira Heffan	41,059	Thomas A. Turano	35,722
Danielle L. Herritt	43,670	Michael J. Twomey	38,349
Elizabeth E. Kim	43,334	Christine C. Vito	39,061
Mi Kim	P-44,830	Patrick R.H. Waller	41,418
Douglas J. Kline	35,574		
John D. Lanza	40,060		
Timothy P. Linkkila	40,702		

☐ Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.

Direct all correspondence to:

Patent Administrator
Testa, Hurwitz & Thibault, LLP
High Street Tower
125 High Street
Boston, MA 02110
Tel. No.: (617) 248-7000
Fax No.: (617) 248-7100



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Loren						Shih			
Inventor's Signature						Date		5/12/00	
Street Address		20 Pemberton Street				Citizenship		USA	
		City	Cambridge	State	MA	Zip	02140	Country	USA
Post Office Address		20 Pemberton Street							
		City	Cambridge	State	MA	Zip	02140	Country	USA
<input type="checkbox"/> Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) attached hereto.									
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Walter A.						Aviles			
Inventor's Signature						Date			
Street Address		809 Moana Dr.				Citizenship		USA	
		City	San Diego	State	CA	Zip	92106	Country	USA
Post Office Address		809 Moana Dr.							
		City	San Diego	State	CA	Zip	.2106	Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Thomas H.						Massie			
Inventor's Signature						Date			
Street Address		55 Mammoth Road				Citizenship		USA	
		City	Windham	State	NH	Zip	03087	Country	USA
Post Office Address		55 Mammoth Road							
		City	Windham	State	NH	Zip	03087	Country	USA

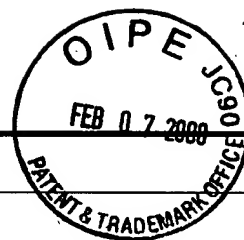
Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09/347,637

Page 4 of 4

Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
Walter C.				Shannon III			
Inventor's Signature						Date	
Street Address	305 Cherry Street					Citizenship	USA
	City	West Newton	State	MA	Zip	02465	Country USA
Post Office Address	305 Cherry Street						
	City	West Newton	State	MA	Zip	02465	Country USA

450JSS7268/10.840024-1



DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION <input type="checkbox"/> Declaration <input checked="" type="checkbox"/> Declaration Submitted with Submitted after Initial Initial Filing Filing (surcharge 37 CFR 1.16(e) required)	Attorney Docket No.	SNS-006CPI
	First Named Inventor	Shih et al.
	COMPLETE IF KNOWN	
	Application Serial Number	09/347,637
	Filing Date	July 6, 1999
	Group Art Unit	2772
Examiner Name	Not Yet Assigned	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SYSTEMS AND METHODS FOR SCULPTING VIRTUAL OBJECTS IN A HAPTIC VIRTUAL REALITY ENVIRONMENT

(Title of the Invention)

the specification of which

☐ is attached hereto
OR
☒ was filed on 07/06/1999 as United States Application Serial Number or PCT International (MM/DD/YYYY)

Application Number 09/347,637 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

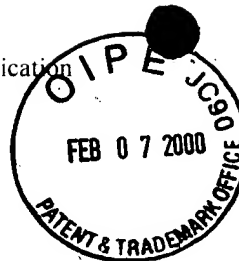
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Serial Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application serial numbers are listed on a supplemental priority data sheet attached hereto.
60/093,304	July 17, 1998	



DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Serial Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
09/340,875	6/28/1999	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number

OR

☒ Registered practitioner(s) name/registration number listed below

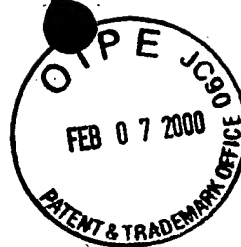
Place Customer
Number Bar Code
Label Here

Name	Registration Number	Name	Registration Number
Steven M. Bauer	31,481	Kurt W. Lockwood	40,704
Isabelle A.S. Blundell	43,321	Marianne McLaughlin	42,870
Maureen A. Bresnahan	P-44,559	Thomas C. Meyers	36,989
Michael H. Brodowski	41,640	Joseph B. Milstein	42,897
Tara C. Cacciabauda	40,935	Ronda P. Moore	44,244
Jennifer A. Camacho	43,526	Edmund R. Pitcher	27,829
Joseph A. Capraro, Jr.	36,471	Dianne M. Rees	P-45,281
John J. Cotter	38,116	Kurt Rauschenbach	40,137
Jennifer L. Dupre	41,722	Michael A. Rodriguez	41,274
John V. Forcier	42,545	Michael J. Schmelzer	43,093
Michael Giannetta	42,574	J. Scott Southworth	39,382
Duncan A. Greenhalgh	38,678	Christopher W. Stamos	35,370
William G. Guerin	41,047	Robert J. Tosti	35,393
Ira Heffan	41,059	Thomas A. Turano	35,722
Danielle L. Herritt	43,670	Michael J. Twomey	38,349
Elizabeth E. Kim	43,334	Christine C. Vito	39,061
Mi Kim	P-44,830	Patrick R.H. Waller	41,418
Douglas J. Kline	35,574		
John D. Lanza	40,060		
Timothy P. Linkkila	40,702		

☐ Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.

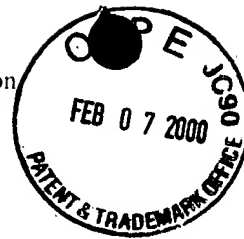
Direct all correspondence to:

Patent Administrator
Testa, Hurwitz & Thibault, LLP
High Street Tower
125 High Street
Boston, MA 02110
Tel. No.: (617) 248-7000
Fax No.: (617) 248-7100



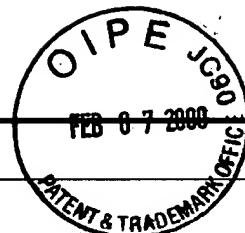
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Loren						Shih			
Inventor's Signature						Date			
Street Address		20 Pemberton Street				Citizenship		USA	
		City	Cambridge	State	MA	Zip	02140	Country	USA
Post Office Address		20 Pemberton Street							
		City	Cambridge	State	MA	Zip	02140	Country	USA
<input type="checkbox"/> Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) attached hereto.									
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Walter A.						Aviles			
Inventor's Signature						Date		20 Jan 00	
Street Address		809 Moana Dr.				Citizenship		USA	
		City	San Diego	State	CA	Zip	92106	Country	USA
Post Office Address		809 Moana Dr.							
		City	San Diego	State	CA	Zip	.2106	Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Thomas H.						Massie			
Inventor's Signature						Date			
Street Address		55 Mammoth Road				Citizenship		USA	
		City	Windham	State	NH	Zip	03087	Country	USA
Post Office Address		55 Mammoth Road							
		City	Windham	State	NH	Zip	03087	Country	USA



Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])				Family Name or Surname				
Walter C.				Shannon III				
Inventor's Signature						Date		
Street Address	305 Cherry Street					Citizenship	USA	
	City	West Newton	State	MA	Zip	02465	Country	USA
Post Office Address	305 Cherry Street							
	City	West Newton	State	MA	Zip	02465	Country	USA

450JSS7268/10.840024-1



DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION <input type="checkbox"/> Declaration <input checked="" type="checkbox"/> Declaration Submitted with Submitted after Initial Initial Filing Filing (surcharge 37 CFR 1.16(e) required)	Attorney Docket No.	SNS-006CP1
	First Named Inventor	Shih et al.
	COMPLETE IF KNOWN	
	Application Serial Number	09/347,637
	Filing Date	July 6, 1999
	Group Art Unit	2772
	Examiner Name	Not Yet Assigned

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SYSTEMS AND METHODS FOR SCULPTING VIRTUAL OBJECTS IN A HAPTIC VIRTUAL REALITY ENVIRONMENT

(Title of the Invention)

the specification of which

☐ is attached hereto
OR
☒ was filed on 07/06/1999 as United States Application Serial Number or PCT International (MM/DD/YYYY)

Application Number 09/347,637 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Serial Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application serial numbers are listed on a supplemental priority data sheet attached hereto.
60/093,304	July 17, 1998	



DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Serial Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
09/340,875	6/28/1999	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number

OR

☒ Registered practitioner(s) name/registration number listed below

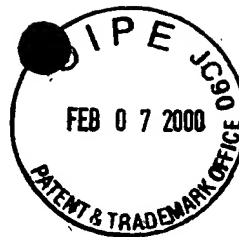
Place Customer
Number Bar Code
Label Here

Name	Registration Number	Name	Registration Number
Steven M. Bauer	31,481	Kurt W. Lockwood	40,704
Isabelle A.S. Blundell	43,321	Marianne McLaughlin	42,870
Maureen A. Bresnahan	P-44,559	Thomas C. Meyers	36,989
Michael H. Brodowski	41,640	Joseph B. Milstein	42,897
Tara C. Cacciabauda	40,935	Ronda P. Moore	44,244
Jennifer A. Camacho	43,526	Edmund R. Pitcher	27,829
Joseph A. Capraro, Jr.	36,471	Dianne M. Rees	P-45,281
John J. Cotter	38,116	Kurt Rauschenbach	40,137
Jennifer L. Dupre	41,722	Michael A. Rodriguez	41,274
John V. Forcier	42,545	Michael J. Schmelzer	43,093
Michael Giannetta	42,574	J. Scott Southworth	39,382
Duncan A. Greenhalgh	38,678	Christopher W. Stamos	35,370
William G. Guerin	41,047	Robert J. Tosti	35,393
Ira Heffan	41,059	Thomas A. Turano	35,722
Danielle L. Herritt	43,670	Michael J. Twomey	38,349
Elizabeth E. Kim	43,334	Christine C. Vito	39,061
Mi Kim	P-44,830	Patrick R.H. Waller	41,418
Douglas J. Kline	35,574		
John D. Lanza	40,060		
Timothy P. Linkkila	40,702		

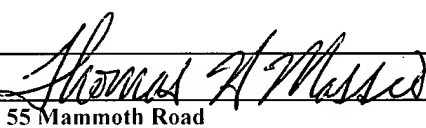
☐ Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.

Direct all correspondence to:

Patent Administrator
 Testa, Hurwitz & Thibault, LLP
 High Street Tower
 125 High Street
 Boston, MA 02110
 Tel. No.: (617) 248-7000
 Fax No.: (617) 248-7100



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Loren						Shih			
Inventor's Signature						Date			
Street Address		20 Pemberton Street				Citizenship		USA	
		City	Cambridge	State	MA	Zip	02140	Country	USA
Post Office Address		20 Pemberton Street							
		City	Cambridge	State	MA	Zip	02140	Country	USA
<input type="checkbox"/> Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) attached hereto.									
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Walter A.						Aviles			
Inventor's Signature						Date			
Street Address		809 Moana Dr.				Citizenship		USA	
		City	San Diego	State	CA	Zip	92106	Country	USA
Post Office Address		809 Moana Dr.							
		City	San Diego	State	CA	Zip	.2106	Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Thomas H.						Massie			
Inventor's Signature						Date		1/14/00	
Street Address		55 Mammoth Road				Citizenship		USA	
		City	Windham	State	NH	Zip	03087	Country	USA
Post Office Address		55 Mammoth Road							
		City	Windham	State	NH	Zip	03087	Country	USA

Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor				
Given Name (first and middle [if any])				Family Name or Surname				
Walter C.				Shannon III				
Inventor's Signature						Date		
Street Address	305 Cherry Street					Citizenship	USA	
	City	West Newton	State	MA	Zip	02465	Country	USA
Post Office Address	305 Cherry Street							
	City	West Newton	State	MA	Zip	02465	Country	USA

450JSS7268/10.840024-1

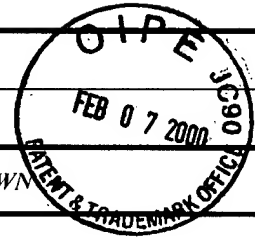


**DECLARATION AND POWER
OF ATTORNEY FOR UTILITY
OR DESIGN**

PATENT APPLICATION

☐ Declaration ☒ Declaration
Submitted with Submitted after Initial
Initial Filing Filing (surcharge
37 CFR 1.16(e) required)

Attorney Docket No. SNS-006CP1
First Named Inventor Shih et al.
COMPLETE IF KNOWN
Application Serial Number 09/347,637
Filing Date July 6, 1999
Group Art Unit 2772
Examiner Name Not Yet Assigned



As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SYSTEMS AND METHODS FOR SCULPTING VIRTUAL OBJECTS IN A HAPTIC VIRTUAL REALITY
ENVIRONMENT**

(Title of the Invention)

the specification of which

☐ is attached hereto
OR

☒ was filed on 07/06/1999 as United States Application Serial Number or PCT International
(MM/DD/YYYY)

Application Number 09/347,637 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

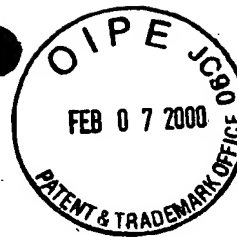
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
			<input type="checkbox"/>	YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Serial Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application serial numbers are listed on a supplemental priority data sheet attached hereto.
60/093,304	July 17, 1998	



DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Serial Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
09/340,875	6/28/1999	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number

OR

☒ Registered practitioner(s) name/registration number listed below

Place Customer
Number Bar Code
Label Here

Name	Registration Number	Name	Registration Number
Steven M. Bauer	31,481	Kurt W. Lockwood	40,704
Isabelle A.S. Blundell	43,321	Marianne McLaughlin	42,870
Maureen A. Bresnahan	P-44,559	Thomas C. Meyers	36,989
Michael H. Brodowski	41,640	Joseph B. Milstein	42,897
Tara C. Cacciabauda	40,935	Ronda P. Moore	44,244
Jennifer A. Camacho	43,526	Edmund R. Pitcher	27,829
Joseph A. Capraro, Jr.	36,471	Dianne M. Rees	P-45,281
John J. Cotter	38,116	Kurt Rauschenbach	40,137
Jennifer L. Dupre	41,722	Michael A. Rodriguez	41,274
John V. Forcier	42,545	Michael J. Schmelzer	43,093
Michael Giannetta	42,574	J. Scott Southworth	39,382
Duncan A. Greenhalgh	38,678	Christopher W. Stamos	35,370
William G. Guerin	41,047	Robert J. Tosti	35,393
Ira Heffan	41,059	Thomas A. Turano	35,722
Danielle L. Herritt	43,670	Michael J. Twomey	38,349
Elizabeth E. Kim	43,334	Christine C. Vito	39,061
Mi Kim	P-44,830	Patrick R.H. Waller	41,418
Douglas J. Kline	35,574		
John D. Lanza	40,060		
Timothy P. Linkkila	40,702		

☐ Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.

Direct all correspondence to:

Patent Administrator
 Testa, Hurwitz & Thibault, LLP
 High Street Tower
 125 High Street
 Boston, MA 02110
 Tel. No.: (617) 248-7000
 Fax No.: (617) 248-7100

Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09/347,637

Page 3 of 4



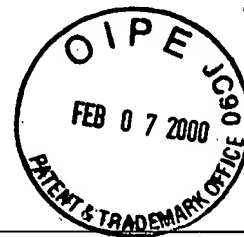
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Loren						Shih			
Inventor's Signature						Date			
Street Address		20 Pemberton Street				Citizenship		USA	
	City	Cambridge	State	MA	Zip	02140	Country	USA	
Post Office Address		20 Pemberton Street							
	City	Cambridge	State	MA	Zip	02140	Country	USA	
<input type="checkbox"/> Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) attached hereto.									
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Walter A.						Aviles			
Inventor's Signature						Date			
Street Address		809 Moana Dr.				Citizenship		USA	
	City	San Diego	State	CA	Zip	92106	Country	USA	
Post Office Address		809 Moana Dr.							
	City	San Diego	State	CA	Zip	.2106	Country	USA	
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])						Family Name or Surname			
Thomas H.						Massie			
Inventor's Signature						Date			
Street Address		55 Mammoth Road				Citizenship		USA	
	City	Windham	State	NH	Zip	03087	Country	USA	
Post Office Address		55 Mammoth Road							
	City	Windham	State	NH	Zip	03087	Country	USA	

Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09/347,637

Page 4 of 4



Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
Walter C.				Shannon III			
Inventor's Signature	<i>Walter Shannon III</i>					Date	1/14/2000
Street Address	305 Cherry Street					Citizenship	USA
	City	West Newton	State	MA	Zip	02465	Country USA
Post Office Address	305 Cherry Street						
	City	West Newton	State	MA	Zip	02465	Country USA

450JSS7268/10.840024-1